TA-AX311

SERVICE MANUAL



US Model Canadian Model E Model Australian Model

SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8-ohm loads, both channels driven, from 40 - 20,000 Hz; rated 110 watts per channel minimum RMS power, with less than 0.9% total harmonic distortion from 250 milliwatts to rated output.

Inputs

	Sensitivity	Impedance
PHONO	3.0 mV	50 kohms
TUNER, CD, VIDEO, TAPE	250 mV	50 kohms

Output

REC OUT: Voltage 250 mV, impedance

1 kohm

SPEAKER: Accepts speakers of 8 to 16 ohms HEADPHONES: Accepts headphones with low

and high impedance

Frequency response

PHONO: RIAA curve

TUNER/CD/VIDEO/TAPE: 30 Hz - 30 kHz ±3 dB

GRAPHIC EQUALIZER controls

Boost/Cut range:

±8 dB (100 Hz, 330 Hz, 1 kHz, 3.3 kHz)

±6 dB (10 kHz)

Dimensions

Approx. $430 \times 145 \times 360 \text{ mm (w/h/d)}$

(17 x 55/₈ x 141/₈ inches)

Weight

Approx. 9.5 kg (20 lb. 15 oz.)

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

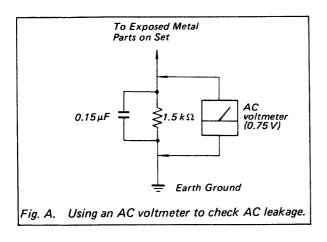
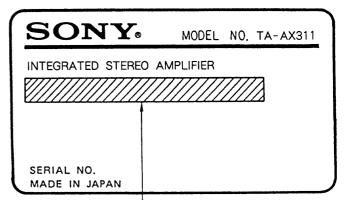


TABLE OF CONTENTS

Section	Title	<u>Page</u>
SPECIFICATIONS		1
1. GENERAL ·····		3
2. DIAGRAMS		
2-1. Description	on IC101(μPD75206-7	717-3BE)···· 6
2-2. Key operation	on	8
2-3. Circuit Boar	ds Location ·····	12
2-4. Semiconduct	or Lead Layouts	13
2-5. Printed Wiri	ng Boards·····	14
2-6. Schematic D	iagram ·····	19
2-7. IC Block Dia	agrams	24
3. EXPLODED VIEV	vs	
3-1. Overall Sect	ion 1 · · · · · · · · · · · · · · · · · ·	25
3-2. Overall Sect	ion 2 · · · · · · · · ·	26
4. ELECTRICAL PA	RTS LIST ·····	27

MODEL IDENTIFICATION

- Specification Label -



US. Canadian models : AC 120V, 60Hz

200W (U) 400VA (CA)

Australian model : AC 220V~50/60Hz 220W

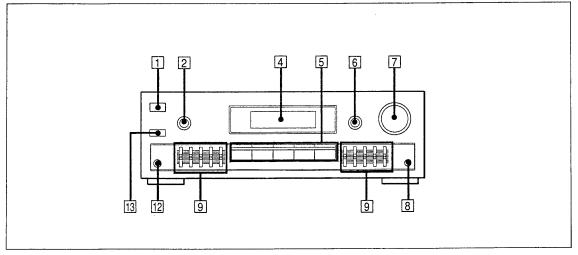
E model: AC 120/220/240V~50/60Hz

220W

SECTION 1 GENERAL

This section is extracted from instruction manual.

1-1. Location and Function of Controls



Amplifier

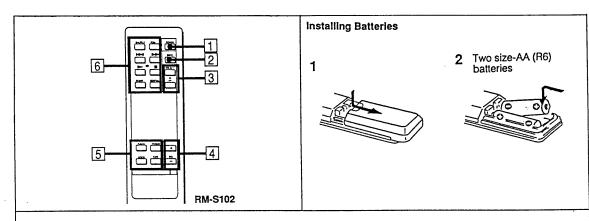
1 SYSTEM POWER switch

When the SYSTEM POWER switch is turned ON, the settings on the display panel are automatically reset the original setting.

- 2 SPEAKERS selector
- 4 Display window
- 5 Function selectors

- 6 BALANCE control
- 7 MASTER VOLUME control
- 8 DBFB switch
- 9 Graphic equalizer controls
- 12 HEADPHONES jack
- 13 Remote control sensor

Remote Commander



- 1 POWER button
- 2 DBFB button
- 3 TUNER PRESET +/- buttons
- 4 VOL (volume) +/- buttons
- 5 Function selectors
- 6 CD player operation buttons
 - **CD** ►: Selects the CD function and starts CD playback.

Rattery life

About half a year of normal operation can be expected when using the Sony SUM-3 (NS) batteries. When the batteries are exhausted, the remote commander can no longer operate the unit. If this happens, replace both batteries with new ones.

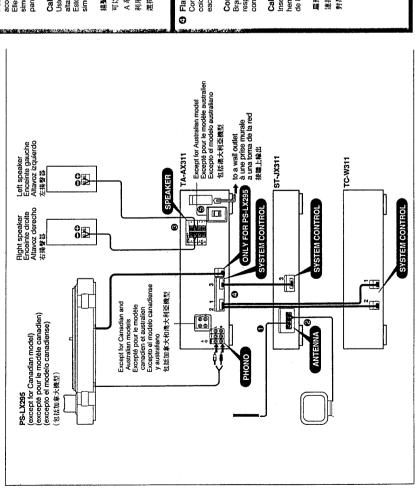
To avoid battery leakage

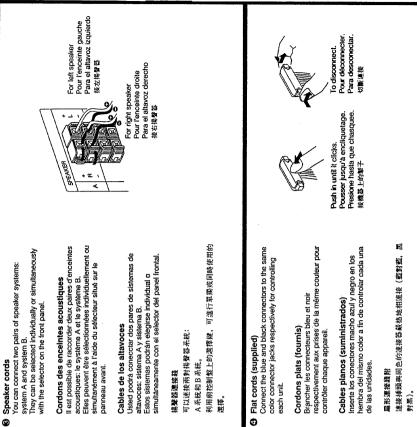
When the commander is not be used for a long time, remove the batteries to avoid damage caused by battery leakage and corrosion.

Connections

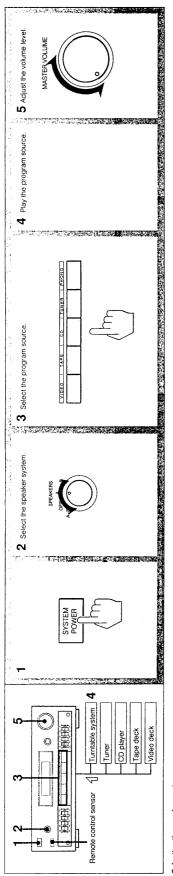
- Connect the AC power cord last. Make sure power is off.
 Cord plugs and jacks are color coded. Red plugs and jacks are for the right channel (R) and white ones are for
 - the left channel (L).

 The cable connectors should be fully inserted into the
- Ine dable connectors should be fully inserted into the lacks. A loose connection may cause hum and noise.
 Keep speaker cords, connecting cords and power cords away from the AM loop antenna and the tuner's antenna lead-in to avoid possible noise pickup.





Listening to a Program Source



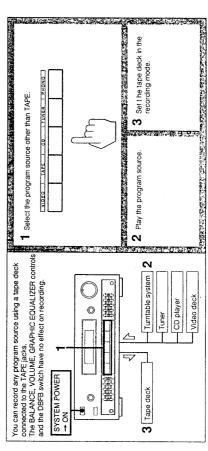
Selecting the speaker system
To drive speaker system A: Set SPEAKERS to 'A'.
To drive speaker system B: Set SPEAKERS to 'B'.
To drive both speakers: Set SPEAKERS to 'A+ B'.
For headphone listening only: Set SPEAKERS to 'OFF'.

Notes

• When SPEAKERS is set to "A + B", two pairs of speaker systems must be connected. Otherwise, no sound can be heard. The sound of rear (surround) speakers are not heard from the headphone.

Selecting the program source
For a record program, press PHONO.
For a tuner program, press DC.
For a CD program, press DC.
For a tipe program, press TAPE.
For a video sound program, press VIDEO.

Recording



SECTION 2 DIAGRAMS

2-1. DESCRIPTION ON IC101(μ PD75206-717-3BE)

Pin	Port	I/0	ACT	RESET	Outside	
1	RESET	I				DIGIT9
2	t0	0	Н	High	L	DIGIT8
3	t1	0	Н	High	L	DIGIT7
4	t2	0	Н	High	L	DIGIT6
5	t3	0	Н	High	L	DIGIT5
6	t4	0	Н	High	L	DIGIT4
7	t5	0	Н	High	L	DIGIT3
8	t6	0	Н	High	L	DIGIT2
9	t7	0	Н	High	L	DIGIT1
10	t8	0	Н	High	L	NC
11	t9	0	Н	High	L	DBFB
12	t10	0	Н	High	L	FRONT MUTE
13	t11	0	Н	High	L	REAR MUTE
14	t12	0	Н	High	L	DRLC CONTROL
15	t13	0	Н	High	L	DRLC SW A
16	t14	0	Н	High	L	DRLC SW B
17	t15	0	Н	High	L	- 30V
18	Vload		_	High		-4V
19	Vpre		_	High		NC
20	s9	0	Н	High	L	SEG9
21	s8	0	Н	High	L	SEG8
22	s7	0	Н	High	L	SEG7
23	s6	0	Н	High	L	SEG6
24	s5	0	Н	High	L	SEG5/KEY OUT5
25	s4	0	Н	High	L	+ 5V
26	V _{DD}			High		SEG4/KEY OUT4
27	s3	0	Н	High	L	SEG3/KEY OUT3
28	s2	0	Н	High	L	SEG2/KEY OUT2
29	s1	0	Н	High	L	SEG1/KEY OUT1
30	s0	0	Н	High	L	KEY IN 1
31	p00	I	Н	In	L	KEY IN 2
32	p01	I	Н	In .	L	

High: High-impedance status

In : Input status

Pin	Port	I/0	ACT	RESET	Outsided	
33	p02	I	Н	In	L	KEY IN 3
34	p03	I	Н	In	L	KEY IN 4
35	p10	I	Н	In		RM - 1
36	p11	I	Н	In		RM – 2
37	p12	I	L	In		DRLC SW
38	p13	I	L	In		POWER SW
39	p20	0	Н	In	L	ST LC7535/LC7822
40	p21	0	L	In	L	ST LV1001M
41	p22	0	Н	In	L	SV MSM59371
42	p23	0	Н	In	L	VOL +
43	p30	0	Н	In	L	VOL -
44	p31	0	Н	In	L	VIDEO A
45	p32	0	Н	In	L	VIDEO B
46	p33	0	L	In	L	TC PAUSE/PRO LOGIC
47	p60	0	Н	In	L	STOP
48	p61	0	Н	In	L	CLOCK
49	p62	0	Н	In	L	DATA
50	p63	0	Н	In	L	FRONT SP relay
51	p40	0	L	In	L	RECOUT SW V1
52	p41	0	L	In	L	RECOUT SW V2
53	p42	0	L	In	L	RECOUT SW TAPE
54	p43	0	Н	In	L	POWER RELAY
55	ppo	0	Н	In	L	REAR SP relay
56	x1					
57	x 2					
58	Vss					
59	xt1					
60	zt2					
61	p50	0	Н	In		DRLC READY
62	p51	0	Н	In		MIX SW
63	p52	0	Н	In		DOLBY SW
64	p53	0	Н	In		SIM SW

High: High-impedance status

In : Input status

2-2. KEY OPERATION

Key input has priority over serial input.

(1) Setting

KEY OUT	S0	S1	S2	S3	S4
P00	PHONO	TUNER	CD	TAPE	VIDEO01
P02	DBFB	DELAY	DOLBY	HALL	SIMULATED

Note 1. SURROUND ON/OFF.

(2) FUNCTION Key (PHONO, TUNER, CD, TAPE, VIDEO1-4) operation

These keys execute operations below when pressed.

FUNCTION IC · · · · · · Serial data REC OUT SW · · · · · · Static data VIDEO SW · · · · · · Static data

FRONT MUTE $\cdots \cdots \circ$ one shot

REAR MUTEOne shot

(3) REAR MUTE PORT

The port is turned to "H" by switching to SURR ON, MODE or FUNCTION.

(Key input, Serial input)

Also the port is "H" three seconds after POWER ON is selected.

REAR MUTE PORT has priority over other ports to output when POWER OFF is selected and operates when SUB VOLUME is turned to ∞ .

However there is no output for the port switching the main FUNC TION when DRLC ON is selected.

(4) DRLC CONTROL PORT (used for SP relay too)
The port is turned to "H" only when DRLC ON is selected. (Key input, Serial input)

(5) POWER RELAY PORT

The port is turned to "H" when either POWER ON or DRLC ON is selected. (Key input, Serial input RM-1, RM-2) Both MAIN and SUB are turned OFF when ALL OFF serial input is selected.

(6) DOLBY PORT

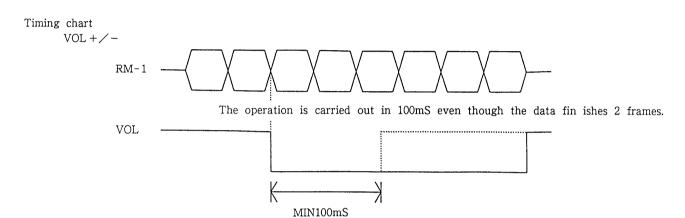
The port is turned to "L" HALL or SIM is selected. (Key input, Serial input)

(7) SIM PORT

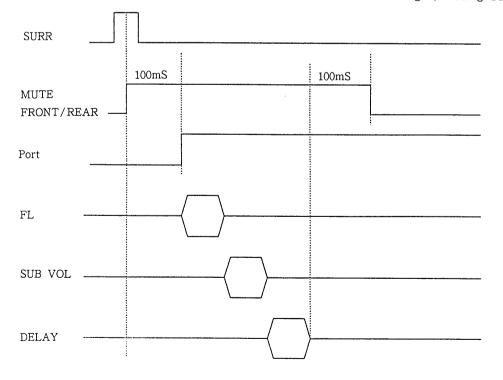
The port is turned to "L" when SIM is selected. (Key input, Serial input)

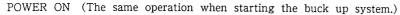
The relation between Switch ON and FUNCTION

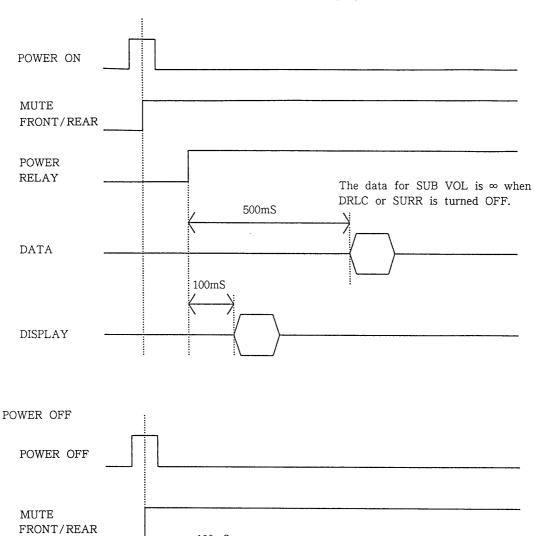
SW	TA-AX311/AV411
1. PHONO	10000001
2. TUNER	01000001
3. CD	00100001
4. TAPE	00010000
5. VIDEO 3	none
6. VIDEO 2	none
7. VIDEO 1	00000011
8. VIDEO 4	none



MUTE must be switched 100mS forward or backward during SURR MODE switching (including SURR/OFF switch).



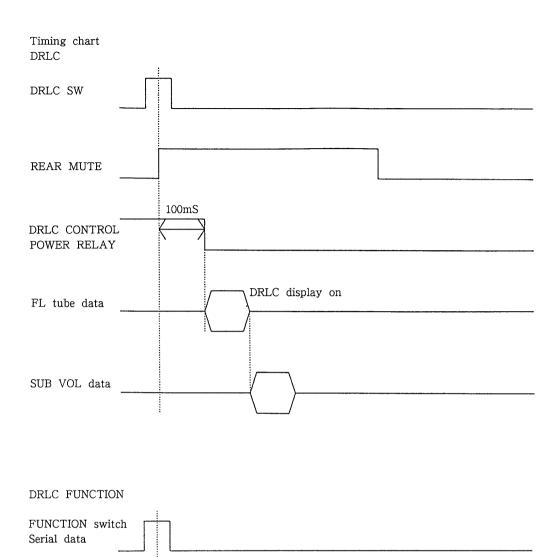




100mS

100mS

POWER RY



REAR MUTE

DRLC FUNC A • B

100mS 100mS

2-3. CIRCUIT BOARDS LOCATION

FUSE BOARD CN BOARD SP/TM BOARD SP/SW BOARD AMP-R BOARD HP JOINT BOARD RX BOARD MAIN BOARD ADP BOARD (E only) HP BOARD VOL JOINT BOARD CONT BOARD AMP-L BOARD VOL BOARD DBFB BOARD

2-4. SEMICONDUCTOR LEAD LAYOUTS

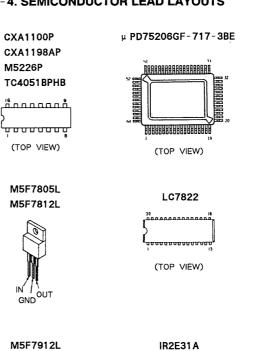
M5226P

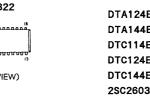
LA3160

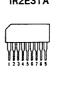
M5128AL

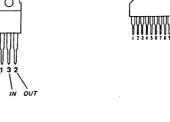
μ PC1237HA

(TOP VIEW)







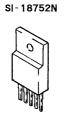








LB1639

























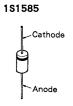
2SC2682-QPE

2SA1684-LK 2SC4431-LK 2SD2012

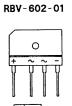


HZS6C2L

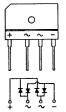
HZS6C3L HZS30-1L Cathode



10E2N

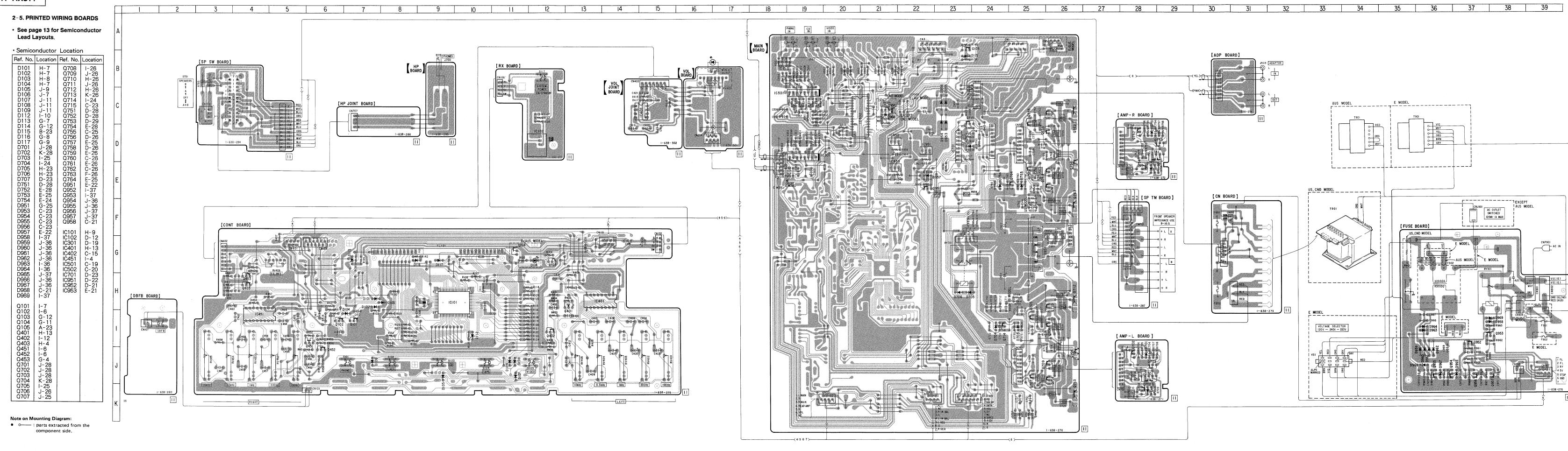


RBA-402



SEL2210S-CD



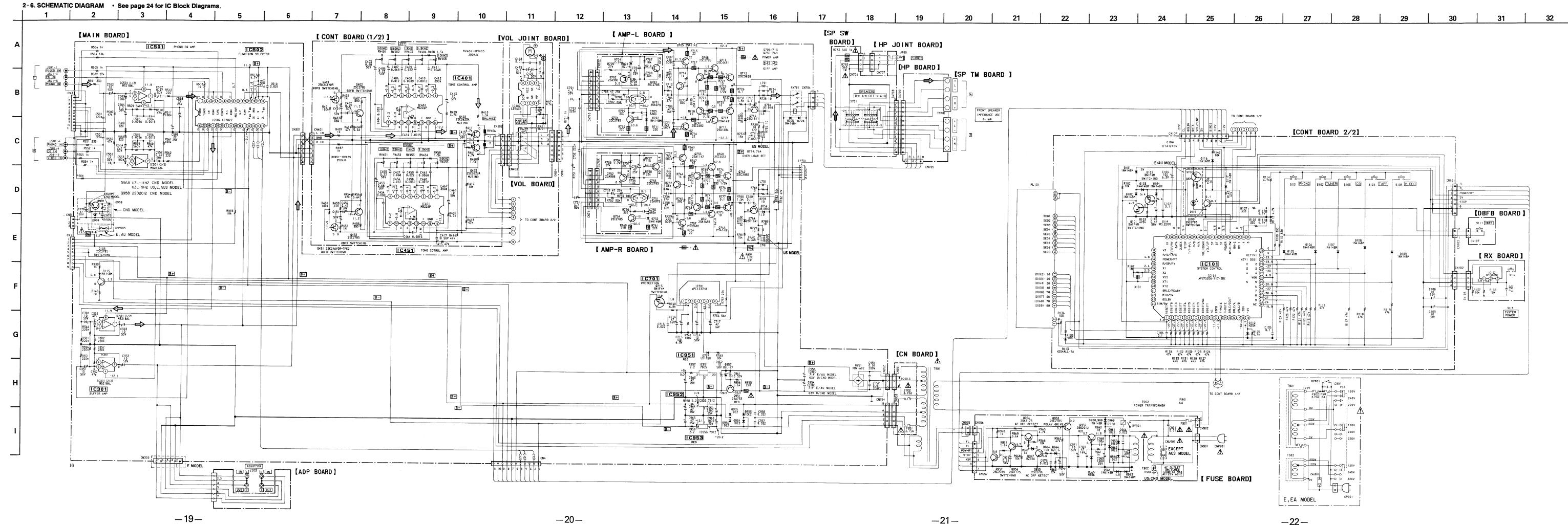


—14—

15—

—17 —

__ 18__



Note on Schematic Diagram:

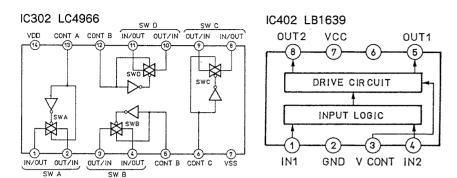
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $^{1}\!/_{\!4}\,W$ or less unless otherwise specified.
- : nonflammable resistor.
 fusible resistor.
- two of: Tusible resistor.

Note: The components identified by mark A or dotted line with mark A are critical for safety.

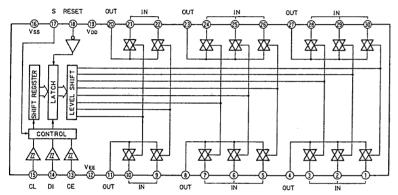
Replace only with part number specified.

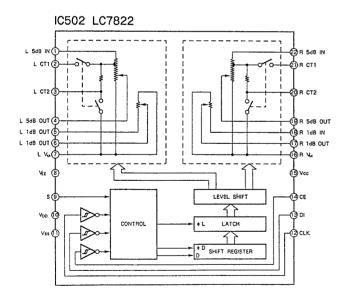
- +B : B + Line+B : B Line
- + B : B Line no mark: No-signal, PHONO MODE
- Voltages are taken with a VOM (input impedance 10M Ω)
 Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
 Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
- ⇒ : PHONO

2-7. IC BLOCK DIAGRAMS

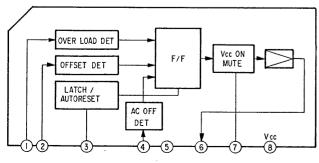


IC404 LC7535





iC701 µ PC1237HA



SECTION 3 EXPLODED VIEWS

NOTE:

- XX. X mean standardized parts. so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED)

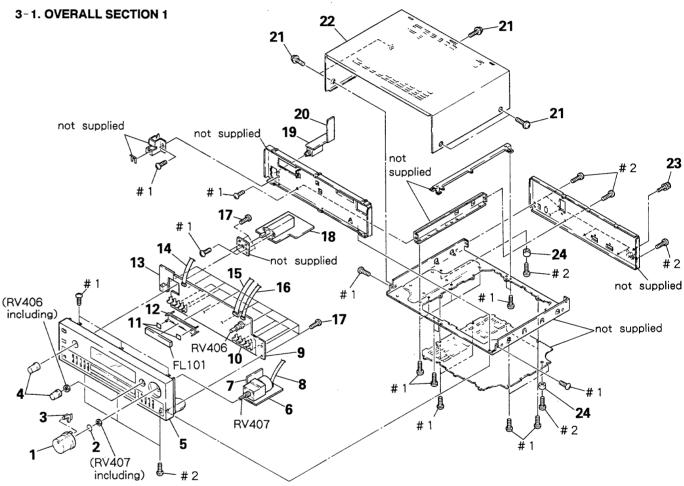
Parts color Cabinet's color

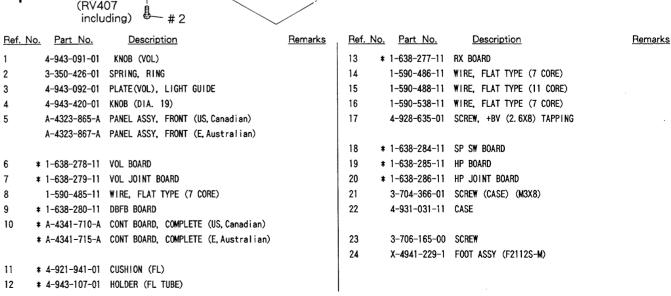
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark for dotted line with mark A are critical for safety.
Replace only with part number specified.

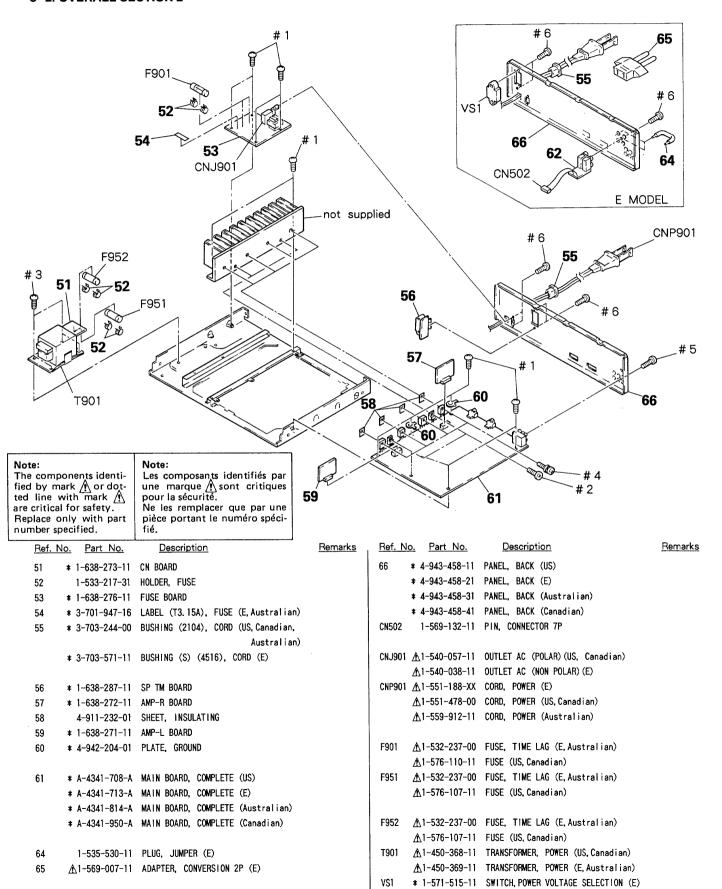
Les composants identifiés par une marque A sont critiques pour la

sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.





3-2. OVERALL SECTION 2



SECTION 4 ELECTRICAL PARTS LIST



NOTE:

The components identified by mark \(\hat{\Lambda}\) or dotted line with mark \(\hat{\Lambda}\) are critical for safety.

Replace only with part number

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be defferent from the parts specified in the diagrams or the components used on the set.
- XX, X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS

In each case, $u:\ \mu$, for example: uA...: μA..., uPA..., μPA..., uPB..., $\mu PB...$, uPC..., $\mu PC...$, uPD..., μPD...

CAPACITORS:

uF: μF

COILS uH: μH

Ref. No	. Part No.	Descript	<u>ion</u>		1	Remarks	Ref. N	<u>lo.</u>	Part No.	De	scription	<u>n</u>			<u>Remarks</u>
,	1−638−274−11	ADP BOARD (E)							< RESIS	TOR >				
		******	*			1									
							R702	-1-	249-435-11	CARBON		33K	5%	1/4W	
		< CONNECTOR	>				R703	1-	249-409-11	CARBON		220	5%	1/4W	
							R704	1-	249-421-11	CARBON		2. 2K	5%	1/4W	
CN502	1-569-132-11	PIN, CONNECT	OR .				R705	1-	249-434-11	CARBON		27K	5%	1/4 W	
							R706	1-	249-426-11	CARBON		5. 6K	5%	1/4W	
		< JACK >													
							R707	1-	249-429-11	CARBON		10K		1/4W	
J503	1-580-905-11	JACK, PIN 4P	1				R708		249-435-11			33K		1/4W	
							R709		249-411-11			330		1/4W	
	(E)						R710	<u></u> 1−	247-704-11	CARBON		220		1/4W	
:	* 1-638-271-11	AMP-L BOARD					R711	<u> 1</u> 1−	247-704-11	CARBON		220	5%	1/4W	
		< CAPACITOR	>												
							*****	*****	********	*******	******	******	*****	*****	*********
C703	1-124-477-11		47uF	20%					11						
C704	1-124-477-11		47uF	20%				* }-	638-272-11						
C705	1-162-292-31	CERAMIC	680PF	10%	507					******	****				
		< CONNECTOR								< CAPAC	י מחדוי				
		CONNECTOR	,							< CAFAC	,iiun /				
CN702	1-560-943-00	PIN CONNECT	OR OP				C753	1-	-124-477-11	EL ECT		47uF	20%	25V	
CNTOZ	1 300 343 00	TIN, CONNECT	On Si				C754		124-477-11			47uF		25V	
		< DIODE >					C755		162-292-31		•	680PF		50V	
		(DIODE)					0100	'	102 232 01	OLIMIN	•	00011	1070	501	
D701	8-719-933-40	DIODE HZS6	SC21							< CONNI	ECTOR >				
D702	8-719-987-63										-010117				
	0 110 001 00						CN703	1-	-560-943-00	PIN. CO	ONNECTOR	R 9P			
		< TRANSISTOR	₹ >				******								
										< DIODI	: >				
0701	8-729-620-18	TRANSISTOR	2SA979-FG												
0702	8-729-108-14		2SA988-F				D751	8-	-719-933-40	DIODE	HZS6C2	2L			
0703	8-729-119-78	TRANSISTOR	2SC2785-HFE	(Cana	adian,		D752	8-	-719-987-63	DIODE	1 N41 48	ВМ			
				Aust	ralian, E)										
0703	8-729-119-78	TRANSISTOR	2SC2785-HFE	(US)											
0704	8-729-119-78	TRANSISTOR	2SC2785-HFE												

AMP-R CN CONT

Ref. N	lo. <u>Part No.</u>	Descript	<u>iion</u>		<u>Remarks</u>	Ref. No.	Part No.	Description	1		<u>Remarks</u>	
		< TRANSISTOR	? >					< CAPACITOR >				
0751	8-729-620-18	TRANSISTOR	2SA979-FG			C101	1-124-902-00	ELECT	0. 47uF	20%	50V	
0752	8-729-108-14	TRANSISTOR	2SA988-F			C102	1-130-495-00	MYLAR	0. 1uF	5%	50V	
Q753	8-729-119-78	TRANSISTOR	2SC2785-H	E		C104	1-124-443-00	ELECT	100uF	20%	10V	
0754	8-729-119-78	TRANSISTOR	2SC2785-H	E		C105	1-130-495-00	MYLAR	0. 1uF	5%	50V	
						C106	1-130-495-00	MYLAR	0. 1uF	5%	50V	
		< RESISTOR 2	>									
						C108	1-136-171-00	FILM	0. 33uF	5%	50V	
R752	1-249-435-11	CARBON	33K	5%	1/4W	C109	1-136-171-00	FILM	0. 33uF	5%	50V	
R753	1-249-409-11	CARBON	220	5%	1/4W	C401	1-124-903-11	ELECT	1uF	20%	50V	
R754	1-249-421-11	CARBON	2. 2K	5%	1/4W	C402	1-124-902-00	ELECT	0. 47uF	20%	50V	
R755	1-249-434-11	CARBON	27K	5%	1/4W	C403	1-124-254-00	ELECT	0. 68uF	20%	50V	
R756	1-249-426-11	CARBON	5. 6K	5%	1/4W							
						C404	1-130-490-11	MYLAR	0. 039uF	5%	50V	
R757	1-249-429-11	CARBON	10K	5%	1/4W	C405	1-124-464-11	ELECT	0. 22uF	20%	50V	
R758	1-249-435-11	CARBON	33K	5%	1/4W	C406	1-130-484-00	MYLAR	0. 012uF	5%	50V	
R759	1-249-411-11	CARBON	330	5%	1/4W	C407	1-130-493-00	MYLAR	0. 068uF	5%	50V	
R760	<u> </u>	CARBON	220	5%	1/4W	C408	1-130-478-00	MYLAR	0. 0039uF	5%	50V	
R761	<u> </u>	CARBON	220	5%	1/4W							
						C409	1-130-487-00	MYLAR	0. 022uF	5%	50V	
						C410	1-164-086-11	CERAMIC	0. 0012uF	10%	50V	
*****	**********	*****	*******	****	*******	C411	1-130-481-00	MYLAR	0. 0068uF	5%	50V	
						C412	1-162-289-31	CERAMIC	390PF	10%	50V	
	* 1-638-273-11	CN BOARD				C413	1-124-907-11	ELECT	10uF	20%	50V (US,	
		******									Canadian)	
						C414	1-161-374-11	CERAMIC	0. 0015uF	20%	50V	
		< FUSE >				C415	1-136-169-00	FILM	0. 22uF	5%	50V	
						C417	1-124-907-11	ELECT	10uF	20%	50V (US,	
F951	<u> </u>	FUSE (US, Ca	nadian)								Canadian)	
F951	<u></u> 1−532−237−00	FUSE, TIME	LAG (Austra	lian,	E)	C451	1-124-903-11	ELECT	1uF	20%	50V	
F952	1-532-237-00	FUSE, TIME	LAG (Austra	lian,	E)	C452	1-124-902-00	ELECT	0. 47uF	20%	50V	
F952	<u> </u>	FUSE (US, Ca	nadian)			C453	1-124-254-00	ELECT	0. 68uF	20%	50V	
						C454	1-130-490-11	MYLAR	0. 039uF	5%	50V	
						C455	1-124-464-11	ELECT	0. 22uF	20%	50V	
****	***********	*********	********	****	******							
						C456	1-130-484-00	MYLAR	0. 012uF	5%	50V	
					•	C457	1-130-493-00		0. 068uF	5%	50V	
	* A-4341-710-A	•				C458	1-130-478-00			5%	50V	
		*******				C459	1-130-487-00		0. 022uF	5%	50V	
	* A-4341-715-A	•				C460	1-164-086-11	CERAMIC	0. 0012uF	10%	50V	
		********	********	****	******							
						C461	1-130-481-00		0. 0068uF			
	* 1-638-275-11					C462	1-162-289-31		390PF		50V	
	1-241-434-11	RES, VAR, S	LIDE 250K			C463	1-124-907-11	ELECT	10uF	20%	50V (US,	
	1-533-217-31	HOLDER, FUS	Ε			1					Canadian)	
	4-352-844-01	PIN, LEAD,	COATING			C464	1-161-374-11	CERAMIC	0. 0015uF	20%	50V	
	* 4-921-941-01	CUSHION (FL	.)									
	* 4-943-107-01	HOLDER (FL	TUBE)			-						

CONT

Ref. No	o. Part No.	Descri	<u>ption</u>	Remarks	Ref. No.	Part No.	Description	1		<u>Remarks</u>
		< CONNECTO	R >				< RESISTOR >			
		COMILOTO								
CN101 :	* 1-568-850-11	SOCKET, CO	NNECTOR 7P		R101	1-247-903-00	CARBON	1M	5%	1/4W
CN102	* 1-565-480-11	CONNECTOR,	BOARD TO BOARD 4P		R102	1-249-429-11	CARBON	10K	5%	1/4W
CN104	* 1-568-854-11	SOCKET, CO	NNECTOR 11P		R103	1-247-895-00	CARBON	470K	5%	1/4W
CN401	* 1-568-850-11	SOCKET, CO	NNECTOR 7P		R105	1-249-417-11	CARBON	1 K	5%	1/4W
CN402	* 1-561-651-00	SOCKET, CO	NNECTOR 7P						(Aus	tralian, E)
					R106	1-249-417-11	CARBON	1K	5%	1/4W
		< DIODE >			R107	1-249-411-11	CARBON	330	5%	1/4W
					R108	1-249-411-11	CARBON	330	5%	1/4W
D101	8-719-987-63	DIODE N4	148M		R109	1-249-411-11	CARBON	330	5%	1/4W
D102	8-719-987-63	DIODE N4	148M		R110	1-249-411-11	CARBON	330	5%	1/4W
D103	8-719-987-63	DIODE N4	148M							
D104	8-719-987-63	DIODE N4	148M		R111	1-249-425-11	CARBON	4. 7K	5%	1/4W
D105	8-719-987-63	DIODE N4	148M		R112	1-249-425-11	CARBON	4. 7K	5%	1/4W
					R113	1-249-425-11	CARBON	4. 7K	5%	1/4W
D106	8-719-987-63	DIODE N4	148M		R114	1-249-425-11	CARBON	4. 7K	5%	1/4W
D107	8-719-987-63	DIODE N4	148M		R115	1-249-437-11	CARBON	47K	5%	1/4W
D108	8-719-987-63	DIODE N4	148M	:						
D109	8-719-987-63	DIODE N4	148M		R116	1-249-437-11	CARBON	47K	5%	1/4W
D112	8-719-985-53	DIODE HZ	S4ALL		R117	1-249-437-11	CARBON	47K	5%	1/4W
					R118	1-249-437-11	CARBON	47K	5%	1/4W
D113	8-719-985-53	DIODE HZ	S4ALL		R119	1-249-437-11	CARBON	47K	5%	1/4W
D114	8-719-301-37	DIODE SE	L2210S-CD (Australian,E)		R120	1-249-437-11	CARBON	47K	5%	1/4W
D116	8-719-987-63	DIODE N4	148M							
D117	8-719-987-63	DIODE N4	148M		R121	1-249-437-11	CARBON	47K	5%	1/4W
					R122	1-249-437-11	CARBON	47K	5%	1/4W
		< FILTER >			R123	1-249-437-11	CARBON	47K	5%	1/4W
					R124	1-249-437-11	CARBON	47K	5%	1/4W
FL101	1-519-663-11	INDICATOR	TUBE, FLUORESCENT		R125	1-249-425-11	CARBON	4. 7K	5%	1/4W
		< 1C >			R126	1-249-437-11		47K	5%	1/4W
					R127	1-249-437-11		47K	5%	1/4W
IC101	8-759-154-40		206-717-3BE		R128	1-249-437-11		47K	5%	1/4W
IC401	8-759-602-04	IC M5226			R129	1-249-437-11		47K	5%	1/4W
1C451	8-759-602-04	IC M5226	P		R130	1-249-437-11	CARBON	47K	5%	1/4W
		< TRANSIST	OR >		R131	1-249-437-11	CARBON	47K	5%	1/4\\
					R132	1-249-437-11	CARBON	47K	5%	1/4W
0101	8-729-900-36				R133	1-249-437-11		47K	5%	1/4W
0102	8-729-900-63				R134	1-249-437-11		47K	5%	1/4W
0103	8-729-119-78				R135	1-249-405-11	CARBON	100	5%	1/4W
0104	8-729-900-63									
Q401	8-729-224-61	TRANSISTOR	2SK246-Y		R136	1-249-405-11		100	5%	1/4W
			***************************************		R142	1-249-429-11		10K	5%	1/4W
0402	8-729-119-78				R143	1-249-437-11		47K	5%	1/4W
0403	8-729-141-30				R401	1-249-441-11		100K	5%	1/4W
0451	8-729-224-61				R402	1-247-903-00	CARBUN	1M	5%	1/4W
0452	8-729-119-78				D402	1 240 411 11	CADDON	220	E#/	1 /aw
0453	8-729-141-30	IMANSISIUK	2SC3623A-LK		R403	1-249-411-11		330	5%	1/4W
					R404	1-249-437-11		47K	5%	1/4W
					R405 R406	1-249-412-11		390	5%	1/4W
					R405	1-249-426-11 1-249-417-11		5. 6K	5% 5%	1/4W
				ļ	N4U /	1-245-41/-11	CANDUM	1K	5%	1/4W

CONT DBFB FUSE

Ref. No	o. Part No.	Description			Remarks	Ref. N	lo. <u>Part No.</u>	Descripti	<u>on</u>		<u>Remarks</u>
R408	1-249-419-11	CARBON 1.5K	5%	1/4W			* 1-638-280-11	DBFB BOARD			
R409	1-249-425-11		5%	1/4W				******			
R410	1-249-419-11	CARBON 1.5K	5%	1/4W							
R411	1-249-425-11		5%	1/4W				< CONNECTOR :	>		
R412	1-249-429-11		5%	1/4W							
			0,0	.,		CN107	* 1-568-951-11	PIN CONNECTO	NR 2P		
R413	1-249-437-11	CARBON 47K	5%	1/4W		0			,,, <u>,</u> ,		
R414	1-249-437-11		5%	1/4W				< SWITCH >			
R415	1-249-437-11		5%	1/4W				Common			
R451	1-249-441-11		5%	1/4W		\$111	1-554-303-21	SWITCH, TACT	(IE (NDED)		
R452	1-247-903-00		5%	1/4W		J.11	1 334 303 21	Sirrich, TAGE	ILL (DDIB)		
11402	1 241 303 00	OANDON IN	3/0	1/40							
R453	1-249-411-11	CARBON 330	5%	1/4W		*****	*********	******		****	*********
R454	1-249-437-11		5%	1/4W				***************************************	******	*****	**********
R455	1-249-412-11		5%	1/4W			* 1-638-276-11	FUSE BOARD			
R456	1-249-426-11		5%	1/4W			+ 1 000 Z10 11	*******			
R457	1-249-417-11		5%	1/4W				*******			
11401	. 240 411 11	ONIDOR 1K	3/0	1/ 411				< CAPACITOR :			
R458	1-249-419-11	CARBON 1.5K	5%	1/4W				CALACITOR 2	,		
R459	1-249-425-11		5%	1/4W		C901	1-161-744-00	CEDAMIC	0.015		4007
R460	1-249-419-11		5%	1/4W		C966	1-130-487-00		0. 01uF	E#	400V
R461	1-249-425-11		5%	1/4W		C967	1-130-487-00		0. 022uF	5%	50V
11401	1 240 420 11	4. TK	3/0	17 411		C968	1-162-282-31		0. 022uF	5%	50V
		< VARIABLE RESISTOR >	,			C969	1-102-262-31		100PF		50V 25V
		VARIABLE REGISTORY				0303	1-124-337-11	LLEGI	1000uF	20%	201
RV401	1-241-434-11	RES, VAR, SLIDE 250K	(100KHz	:)		C970	1-124-477-11	ELECT	47uF	20%	25V
RV402	1-241-434-11	RES, VAR, SLIDE 250K	(300KHz	:)		C971	1-124-907-11		10uF		50V
RV403	1-241-434-11	RES, VAR, SLIDE 250K	(1kHz)			C972	1-124-903-11		1uF		50V
RV404	1-241-434-11	RES, VAR, SLIDE 250K		:)		C973	1-130-487-00		0. 022uF	5%	50V
RV405	1-241-434-11	RES, VAR, SLIDE 250K	(10KHz)			C974	1-124-464-11	•	0. 22uF		50V
							•				
RV406	1-241-022-11	RES, VAR, CARBON 150K	:/150K ((BALANCE)				< CONNECTOR >	,		
RV451	1-241-434-11	RES, VAR, SLIDE 250K	(100KHz)							
RV452	1-241-434-11	RES, VAR, SLIDE 250K	(300KHz)		CN901	1-535-139-00	BASE POST 22M	M (10MM PI	TCH) 2	P
RV453	1-241-434-11	RES, VAR, SLIDE 250K	(1kHz)			CN902	1-535-139-00	BASE POST 22N	M (10MM PI	TCH) 2	P
RV454	1-241-434-11	RES, VAR, SLIDE 250K	(3. 3KHz)		CN903		BASE POST 2P			
						CN904	* 1-535-115-00	TERMINAL (E)			
RV455	1-241-434-11	RES, VAR, SLIDE 250K	(10KHz)			CN905	* 1-535-116-00	TERMINAL (E)			
	•										
		< SWITCH >				CN956	* 1-564-777-11	PLUG, CONNECT	OR (2.5MM)	2P	
							* 1-568-826-11				
\$101	1-554-303-21	SWITCH, TACTILE (PHON	E)			CNJ901	<u></u> 1-540-057-11	OUTLET, AC (F	OLAR) (AC (OUTLET) (US,
\$102	1-554-303-21	SWITCH, TACTILE (TUNE	R)								Canadian)
\$103	1-554-303-21	SWITCH, TACTILE (CD)				CNJ901	1-540-038-11	OUTLET, AC (N	ONPOLAR) (1	IP) (E)
S104	1-554-303-21	SWITCH, TACTILE (TAPE)								
\$105	1-554-303-21	SWITCH, TACTILE (VIDE	0)					< DIODE >			
		< CRYSTAL >				D958	8-719-987-63	DIODE N4148	М		
						D959	8-719-200-77	DIODE 10E2N			
X101	1-567-775-11	VIBRATOR, CERAMIC				D960	8-719-200-77	D10DE 10E2N			
						D961	8-719-200-77	DIODE 10E2N			
						D962	8-719-200-77	DIODE 10E2N			
*****	******	********	*****	******	*****						

Note:
The components identified by mark or dotted line with mark Replace only with part number specified.

Note:

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

FUSE HP HP JOINT MAIN

Ref. N	No. <u>Part No.</u>	Descrip	<u>otion</u>			<u>Remarks</u>	Ref. N	<u>Vo.</u>	Part No.	Description	<u>on</u>		<u>Remarks</u>	
D963	8-719-987-63	DIODE N41	48M					* 1-	-638-285-11	HP BOARD				
D964	8-719-987-63	DIODE N41	48M							******				
D965	8-719-933-41	DIODE HZS	66C3L											
D966	8-719-933-41	DIODE HZS	66C3L							< JACK >				
D967	8-719-985-53	DIODE HZS	S4ALL											
							J700	1-	-568-515-21	JACK (LARGE T	YPE) (PHONE	ES)		
D969	8-719-987-63	DIODE 11E	:S2											
		< FUSE >					*****	****		*******	*****	****	*********	
		(103L)						*****		***********	******	*****		
F901	1 1−532−237−00	FUSE, TIME L	.AG (E. Austr	alian))			* 1-	-638-286-11	HP JOINT BOAR	D			
F901	<u> </u>	-								********				
		< TRANSISTO	OR >							< CONNECTOR >				
0952	8-729-209-15		2SD2012				CN707	* 1-	-506-509-11	PIN, CONNECTO	R 4P			
0953	8-729-119-78		2SC2785-H											
0954	8-729-119-76		2SA1175-H											
0955	8-729-119-78		2SC2785-H				*****	*****	*********	******	*******	*****	************	
0956	8-729-119-76	INANSISION	2SA1175-H	FE				.	-4241 <u>-</u> 014_4	MAIN BOARD, C	OMBIETE (A.		lian)	
0957	8-729-119-78	TRANSISTOR	2SC2785-H	FF				+ ^	4541 014 A	*********		strai	(Tall)	
4001	0 120 110 10	11111110101011	2002100 11					* A-	-4341-950-A	MAIN BOARD, C		anadia	an)	
		< RESISTOR	>							********			/	
								* A-	-4341-713-A	MAIN BOARD, C	OMPLETE (E))		
R901	1-202-725-00	SOLID	3. 3M	10%	1/2₩					********	*****			
				(US	S, Canadian)			* A-	-4341 -708-A	MAIN BOARD, C	OMPLETE (US	S)		
R960	1-249-396-11	CARBON	18	5%	1/6₩					*******	******			
R961	1-249-417-11	CARBON	1K	5%	1/4W									
R962	1-249-437-11	CARBON	47K	5%	1/4₩			* 1-	-683-270-11	MAIN BOARD				
R963	1-249-433-11	CARBON	22K	5%	1/4W			1-	-533-217-31	HOLDER, FUSE	(US)			
R964	1-249-429-11	CARBON	10K	5%	1/4₩			* 4-	-942-204-01	PLATE, GROUND				
DOCE	1 240 425 11	CADDON	4 70	E#	1 /AW					< CADACITOD >				
R965 R966	1-249-425-11 1-249-429-11		4. 7K 10K	5%	1/4\ 1/4\					< CAPACITOR >				
R967	1-249-429-11		1 K	5% 5%	1/4# 1/4W		C301	1	-124-907-11	ELECT	10uF	20%	50V	
R968	1-249-429-11		10K	5%	1/4W		C302		-162-215-31		47PF	20% 5%	50V 50V	
R969	1-249-426-11		5. 6K	5%	1/4W		C303		124-907-11		10uF		50V	
		· · · · · · · · · · · · · · · · · · ·	0. 0. .	0,0	.,		C351		124-907-11		10uF	20%	50V	
R970	1-249-417-11	CARBON	1K	5%	1/4W	:	C352		162-215-31		47PF	5%	50V	
R971	1-249-426-11	CARBON	5. 6K	5%	1/4W									
							C353	1-	124-907-11	ELECT	10uF	20%	50V	
		< RELAY >					C501	1-	162-283-31	CERAMIC	120PF	10%	50V	
							C502	1-	124-907-11	ELECT	10uF	20%	50V	
RY901	<u> </u>	RELAY (Aust	ralian,E)				C503	1-	162-282-31	CERAMIC	100PF	10%	50V	
RY901	<u> </u>	RELAY (US, C	anadian)				C504	1-	124-925-11	ELECT	2. 2uF	20%	100V	
		,	-n ·											
		< TRANSFORM	FK >				C506		161-374-11		0. 0015uF		50V	
TOOO	A 1 440 000 01	TOANCECOMES	מוס מוס	٠			C507		124-902-00		0. 47uF			
T902 T902	1-449-993-21 1-450-067-11						C508		126-233-11		22uF		50V	
1302	<u> </u>	INAMOFUNMEN	, IOHEN (AUS	u a i i	a11, ⊑/		C509	1-	162-294-31	CENAMIC	0. 001uF	10%	50V	

Note:

The components identified by mark A or dotted line with mark are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque Asont critiques pour la sécurité.
Ne les remplacer que par une

pièce portant le numéro spéci-fié.

MAIN

Ref. No	o. Part No.	Descriptio	<u>n</u>			Remarks	Ref. N	o. Part No	<u>.</u>	Descriptio	<u>n</u>			Remarks
C510	1-162-294-31	CERAMIC	0. 001uF	10%	50V		C957	1-130-487	-00 MYI	AR.	0. 022uF	5%	50V	
C551	1-162-283-31		120PF		50V		C958	1-130-487			0. 022uF	5%	50V	
C552	1-124-907-11		10uF		50V		C959	1-124-563			2200uF	20%		
C553	1-162-282-31		100PF		50V		C960	1-124-557			1000uF		25V	
0333	1 102 202 01	CLIMINIO	10011	10/0	301		C961	1-124-907			100F		50V	
CEE4	1_124_025_11	EI ECT	2. 2uF	20%	100V		0301	1 124 301	II LLL	• 1	1001	20/8	301	
C554	1-124-925-11		0. 0056uF	20% 5%	50V		C962	1 124 007	11 515	^*	10	201/	FOV	
C555	1-130-480-00							1-124-907			10uF		50V	
C556	1-161-374-11		0. 0015uF		50V		C963	1-124-477			47uF		25V	
C557	1-124-902-00		0. 47uF		50V		C964	1-124-477			47uF		25V	
C558	1-126-233-11	ELECT	22uF	20%	50V		C965	1-124-477			47uF		25V	
0701	1 104 007 11	EI ECT	4.75	201/	1004		C975	1-124-910	-14 EFE	UI .	47uF		50V	
C701	1-124-927-11		4. 7uF		1007		0070	1 104 010	11 515	^=	47 F		(Canadian)	1
C702	1-162-286-31		220PF		50V		C976	1-124-910	·II ELE	U	47uF		500	
C706	1-162-209-31		27PF	5%	50V							'	(Canadian)	1
C707	1-161-959-00		22PF		500V									
C708	1-124-477-11	ELECT	47uF	20%	25V				< 0	ONNECTOR >				
C709	1-161-959-00	CERAMIC	22PF	10%	500V		CN1	1-565-949	-11 SOC	KET, CONNEC	CTOR 9P (S	YSTEM	CONTROL 3	3)
C710	1-130-495-00	MYLAR	0. 1uF	5%	50V		CN3	* 1-566-858		KET, CONNEC				
C711	1-130-493-00	MYLAR	0. 068uF	5%	50V					•		EM COM	VTROL 2. 1)	1
			(Canadiar		stralian)		CN5	* 1-564-358	-00 PIN	CONNECTOR	•			
C712	1-130-489-00	MYLAR	0. 033uF	5%	50V (US)			* 1-568-826		KET, CONNEC	• • •		,,	
C712	1-130-493-00		0. 068uF	5%	50V			* 1-564-779		G, CONNECTO		6P (E	Ξ)	
					ıstralian)			* 1-568-826		KET, CONNEC		. (-,	
C713	1-130-487-00	MYLAR	0. 022uF	5%				* 1-563-192		NECTOR (SOC				
C714	1-124-477-11		47uF		25V		0.11.10				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
C715	1-124-443-00		100uF		10V		CN711	* 1-563-192	-11 CON	NECTOR (SOC	KET) QP			
C716	1-124-907-11		10uF		50V		CN903			E POST 22MN	•	TCH) 2	P (F)	
C717	1-124-477-11		47uF		25V		0000	, 000 .00	00 07.0	- 1001 EEMI	. (10	. 011,7	-1 (12)	
									< D	IODE >				
C751	1-124-927-11	ELECT	4. 7uF	20%	100V									
C752	1-162-286-31	CERAMIC	220PF	10%	50V		D115	8-719-987	63 DIO	DE 1N4148	BM.			
C756	1-162-209-31		27PF	5%	50V		D703	8-719-815						
C757	1-161-959-00		22PF		500V		D704	8-719-815						
C758	1-124-477-11		47uF		25V		D705	8-719-987						
					201		D706	8-719-987			am SM (Canadia	an F		
C759	1-161-959-00	CERAMIC	22PF	10%	500V		2.00	0 110 001	00 010	22 111-11-10	A (00/100/1		ustralian)	
C760	1-130-495-00		0. 1uF	5%			D707	8-719-815	85 DIO	DE 1S1585	;	Α.	13 Cr a 1 Tall/	
C761	1-130-493-00		0. 068uF	5%			D753	8-719-815						
..					stralian)		D754	8-719-815						
C762	1-130-489-00	MYLAR	0. 033uF	5%			D951	8-719-302-						
C762	1-130-493-00		0. 068uF	5%			5551	0 713 302	50 D10)L 1104 00	72 (1)			
****					stralian)		D953	8-719-200-	.77 DIO	DE 10E2N				
C951	1-106-367-00	MYLAR	0. 01 uF		2007		D954	8-719-200-						
C952	1-106-367-00		0. 01 uF		200V		D955	8-719-200-						
C953	1-125-479-11		10000uF		63V		D956	8-719-200-						
***************************************			100000.		Canadian)		D957	8-719-002-			.11			
C953	1-126-358-11	ELECT	10000uF		717		D968	8-719-001-			H2 (Canadi	ian)		
	20 000 11				ralian, E)		2000	J 113 001	~ DIO	VAL II	(Callad	a.1/		
C954	1-126-358-11	ELECT	10000uF		717		D968	8_710_001.	25 DIN	DE UZL-9H	12 (IIC A	ral:-	νο Ε\	
	25 000 11		1000001		ralian, E)		2300	0 113 001	#0 DIO	/L U∠L-9⊓	L (US, AUS)		III, E/	
C954	1-125-479-11	FLECT	10000uF	20%										
0004	. 120 410 11		1000001		Canadian)				*					
				(00,	variau i ail)	1								

MAIN

Ref. N	o. <u>Part No.</u>	<u>Description</u> Re		<u>Remarks</u>	Ref. No	o. Part No.	Descrip	tion			Remarks
		< IC >			0764	8-729-140-84	TRANSISTOR	2SC1841-	PAFAEA		
					0951	8-729-141-03		2SA733-0			
IC301	8-759-634-50	IC M5218	AL		0958	8-729-209-15	TRANSISTOR	2SD2012	(Canad	ian)	
IC501	8-759-634-50	IC M5218	AL								
10502	8-759-805-14	IC LC782	2				< RESISTOR	>			
IC701	8-759-111-68	IC uPC12	37HA								
IC951	8-759-231-53	IC M5F78	05L		R139	1-249-417-11	CARBON	1K	5%	1/4W	
					R140	1-249-393-11	CARBON	10	5%	1/4W	
10952	8-759-604-33	IC M5F78	12L		R141	<u> </u>	CARBON	2. 2	5%	1/2W F	
10953	8-759-604-51	IC M5F79	12L						(Au	stralian, E)
					R301	1-247-887-00	CARBON	220K	5%	1/4W	
		< IC LINK	>		R302	1-247-887-00	CARBON	220K	5%	1/4W	
					R346	1-247-887-00	CARBON	220K	5%	1/4W	
ICP903	1-532-841-21	LINK IC (A	ustralian, E)		R351	1-247-887-00	CARBON	220K	5%	1/4W	
					R352	1-247-887-00	CARBON	220K	5%	1/4W	
		< JACK >									
					R396	1-247-887-00	CARBON	220K	5%	1/4W	
J501	1-580-826-11	JACK, PIN	(PHONE CD VIDEO)		R501	1-249-411-11	CARBON	330	5%	1/4W	
					R502	1-249-417-11	CARBON	1K	5%	1/4W	
		< COIL >			R503	1-249-429-11		10K	5%	1/4W	
					R504	1-249-417-11	CARBON	1K	5%	1/4W	
	* 1-420-872-00										
L751	* 1-420-872-00	COIL, AIR	CORE		R505	1-249-417-11		1K	5%	1/4W	
					R506	1-249-417-11		1K	5%	1/4W	
		< TRANSIST	OR >		R507	1-249-437-11		47K	5%	1/4W	
					R508	1-249-416-11		820	5%	1/4W	
Q105	8-729-119-78		2SC2785-HFE		R509	1-247-897-11	CARBON	560K	5%	1/4W	
0705	8-729-141-06		2SA1142-QPE								
0706	8-729-209-15		2SD2012		R510	1-249-437-11		47K	5%	1/4W	
0707	8-729-141-05		2SC2682-QPE		R511	1-249-441-11		100K	5%	1/4W	
0708	8-729-119-78	TRANSISTUR	2SC2785-HFE		R512	1-249-409-11		220	5%	1/4W	
0700	0 700 110 76	TOANCICTOD	2041175 UFF		R513	1-249-425-11		4. 7K	5%	1/4W	
0709	8-729-119-76	INANSISIUN	2SA1175-HFE (Canadian, E, Australian)		R551	1-249-411-11	CARBON	330	5%	1/4W	
0709	8-729-620-02	TDANCICTOD	2SA1115-EF (US)		R552	1-249-417-11	CADDON	1K	EW	1/4W	
Q710	8-729-141-46		2SC4431-LK		R553	1-249-417-11		10K	5% 5%	1/4W	
Q711	8-729-141-37		2SA1684-LK		R554	1-249-417-11		1K	5%	1/4W	
4711	0 723 141 07	THATOTOTOT	ZORTOOT ER		R555	1-249-417-11		1K	5%	1/4W	
0712	8-729-320-83	TRANSISTOR	2SC3855-0Y		R556	1-249-417-11		1K	5%	1/4W	
0713	8-729-320-86		2SA1491-0Y		11000	1 243 411 11	OAIIDON	110	070	17	
0714	8-729-140-84		2SC1841-PAFAEA		R557	1-249-437-11	CARRON	47K	5%	1/4W	
0715	8-729-900-36		DTC124ES		R558	1-249-416-11		820	5%	1/4W	
0755	8-729-141-06		2SA1142-QPE		R559	1-247-897-11		560K	5%	1/4W	
2.00	0 120 111 00				R560	1-249-437-11		47K	5%	1/4W	
0756	8-729-209-15	TRANSISTOR	2SD2012		R561	1-249-441-11		100K	5%	1/4W	
0757	8-729-141-05		2SC2682-QPE			7 = 12 - 441 11			5 / 1	17 -711	
0758	8-729-119-78		2SC2785-HFE		R562	1-249-409-11	CARBON	220	5%	1/4W	
0759	8-729-119-76		2SA1175-HFE (Canadian, E,		R701	1-249-417-11		1 K	5%	1/4W	
			Australian		R712	1-249-435-11		33K	5%	1/4W	
0759	8-729-620-02	TRANSISTOR	2SA1115-EF (US)			1-247-692-11		22	5%	1/4W	
0760	8-729-141-46		2SC4431-LK		R714	1-249-417-11		1K	5%	1/4W	
Q761	8-729-141-37		2SA1684-LK								
0762	8-729-320-83	TRANSISTOR	2SC3855-0Y					•			
0763	8-729-320-86	TRANSISTOR	2SA1491-0Y	'							
						Note:		Note:			

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

MAIN RX

Ref.	No. Part No.	Descripti	on			Remarks	Ref. 1	No. Part No.	Description	<u>on</u>			Remarks
R715	1-249-412-11	CARBON	390	5%	1/4W		R773	<u> </u>	CARBON	330	5%	1/2W	
R716	1-247-692-11		22	5%	1/4W		R774	<u>↑</u> 1-247-688-11	CARBON	10	5%	1/4W	
R717	<u>↑</u> 1-247-688-11		10	5%	1/4W		R775	1-247-688-11	CARBON	10	5%	1/4W	
R718	<u>∆</u> 1-247-688-11	CARBON	10	5%	1/4W		R776	<u>∆</u> 1-214-789-00	RES, METAL PL		3/6	1/4π	
R719	<u>∆</u> 1-247-719-11		3. 3K	5%	1/4W		R777						
NIIS	Д1-241-713-11	CANDON	3. 3K	3/0	1/4π		N///	<u>↑</u> 1-214-789-00	NEO, METAL PL	AIE U. I			
R720	<u></u> 1-247-713-11	CARBON	1 K	5%	1/4W		R778	1-249-393-11	CARRON	10	54	1/4W	
R721	<u></u> ∆1-247-713-11		1K	5%	1/4W			1 240 000 11	0/11/2011	10		Canadian, E)	١
R722	<u>∧</u> 1-247-717-11		2. 2K	5%	1/4W		R778	1-247-688-11	CARRON	10		1/4W	,
R723	<u>∆</u> 1-247-745-11		330	5%	1/2₩		111110	1 247 000 11	CANDON	10		1/4m Australian)	
R724	<u>∆</u> 1-247-688-11		10	5%	1/4W		R779	1-247-688-11	CADDON	10		1/4W	,
24	A21 241 000 11	OAHDON	10	3/0	17 -+11		11113	1-247-000-11	CANDON	10		•	\
R725	<u> </u>	CARBON	10	5%	1/4W		R779	1-249-393-11	CAPRON	10		(ustralian))
R726	<u>1-214-789-00</u>			3/8	1/411		1113	1-249-393-11	CARDUN	10		1/4W	•
R727	<u>∧</u> 1-214-789-00	•					R780	1 240 410 11	CARRON	1 EV		Canadian, E))
R728	1-249-393-11		10	E#	1/4W		R781	1-249-419-11 1-249-431-11		1. 5K	5%	1/4W	
N/20	1-249-393-11	CANDUM	10							15K	5%	1/4W	
R728	1-247-688-11	CADDON	10		Canadian, E)		R782	1-249-438-11		56K	5%	1/4W	
N/20	1-241-000-11	CARBUN	10		1/4₩		R784	1-249-393-11	CARBON	10		1/4W	
D720	1-247-688-11	CARRON	10		Australian)		D704	1 047 000 11	0400011	10		Canadian, E))
R729	1-247-000-11	CANDON	10		1/4W Australian)		R784	1-247-688-11	CARBUN	10		1/4W	
R729	1-249-393-11	CADDON	10				D700	1 047 000 11	040000	10		lustralian))
N/23	1-249-393-11	CANDON	10		1/4₩		R789	1-247-688-11	CARBUN	10		1/4₩	
D720	1-240-410-11	CADDON	1 57		Canadian, E)		D700	1 040 000 11	040004			lustralian))
R730	1-249-419-11		1. 5K	5%	1/4W		R789	1-249-393-11	CARBON	10		1/4W	
R731	1-249-431-11		15K	5%	1/4₩		5700					Canadian, E)	1
R732	1-249-437-11		47K	5%	1/4W		R793	1-249-429-11		10K	5%	1/4W	
R734	1-249-393-11	CARBON	10	5%	1/4₩		R954	1-216-481-11		1. 2K	5%	3W F	
D724	1 247 600 11	CARRON	10		Canadian, E)		R955	1-247-704-11		220	5%	1/4W	
R734	1-247-688-11	CARBON	10		1/4W		R956	1-249-426-11		5. 6K	5%	1/4W	
0705	1 047 000 11	0.4.000.01	10		Australian)		R957	1-249-385-11	CARBON	2. 2	5%	1/6W	
R735	1-247-688-11	CARBUN	10		1/4W		5050						
0705	1 040 000 11	0.100011	10		Australian)		R958	1-249-385-11		2. 2	5%	1/6₩	
R735	1-249-393-11	CARBON	10		1/4W		R959	1-249-385-11	CARBON	2. 2	5%	1/6W	
D700	1 040 400 11	O A DDON	F01/		Canadian, E)		R972	1-249-425-11	CARBON	4. 7K	5%	1/4W	
R736	1-249-438-11		56K	5%	1/4W							(Canadian)	
R737	1-249-433-11		22K	5%	1/4W								
R740	1-249-427-11		6. 8K	5%	1/4W				< RELAY >				
R741	1-249-441-11		100K		1/4W								
R751	1-249-417-11	CARBON	1 K	5%	1/4W		RY701	1-515-741-11	RELAY				
0760	1 040 405 11	CADDON	201		1 / AW								
R762	1-249-435-11		33K		1/4W				< TEST PIN >				
R763	<u>↑</u> 1-247-692-11		22		1/4W								
R764	1-249-417-11		1 K		1/4W		12701	* 1-560-531-00	PIN, CONNECTO	R 5P			
R765	1-249-412-11		390		1/4W								
R766	<u>↑</u> 1-247-692-11		22		1/4W								
R767	<u> </u>	CARBON	10	5%	1/4W		*****	***********	**********	*******	*****	********	******
R768	<u></u> 1-247-688-11	CARBON	10	5%	1/4W			* 1-638-277-11	RX BOARD				
R769	<u>↑</u> 1-247-719-11		3. 3K		1/4W				*****				
R770	1-247-713-11		1 K		1/4W								
R771	<u></u> ∆1-247-713-11		1 K	5%	1/4W				< CAPACITOR >				
R772	<u></u> ∆1-247-717-11		2. 2K	5%	1/4W				· vaiautivii /				
=		***		•			C107	1-162-294-31	CERAMIC	0. 001uF	10%	50V	
						l	0.01	1 102 234 31	OCI PURI O	0. 00 i ur	1076	301	

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les components identifies compour la sé Ne les replèce portifié.

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

RX SP SW SP TM VOL VOL JOINT

Ref. No. Part No.	Description Remarks < CONNECTOR >	Ref. No. Part No.					
CN106 * 1-565-295-11	PLUG, CONNECTOR 4P		********* < CONNECTOR >				
	< IC >		Connection				
		CN204 * 1-568-826-11	SOCKET, CONNECTOR 7P				
IC102 8-749-920-83	IC GP1U52XB		< VARIABLE RESISTOR >				
	< RESISTOR >	RV407 1-241-405-11	RES. VAR. CARBON 100K/100K				
R137 1-249-429-11 R138 1-249-429-11		111407 1 241 400 11	(MASTER VOLUME)				
		***************	***************************************				
	< SWITCH >	+ 1_629_E02_11	VOL JOINT BOARD				
S117 1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)	* 1-030-302-11	**************************************				
			< CAPACITOR >				
*******	***************************************						
		C418 1-162-306-11					
* 1-638-284-11	SP SW BOARD	C419 1-124-925-11					
	*******	C420 1-124-925-11					
	< CONNECTOR >	C421 1-162-306-11	CERAMIC 0.01uF 20% 16V				
			< IC >				
CN706 * 1-565-480-11	CONNECTOR, BOARD TO BOARD 4P						
CN708 * 1-506-786-11	PLUG, CONNECTOR (2.5MM) 12P	IC402 8-759-820-62	: IC LB1639				
	< RESISTOR >		< RESISTOR >				
R733 <u></u> <u></u> ∆1-216-431-11	METAL OXIDE 560 5% 1₩ F	R416 1-249-409-11	CARBON 220 5% 1/4W				
R783 <u>A</u> 1-216-431-11		R417 1-249-425-11					
		R418 1-249-425-11					
	< SWITCH >						
S701 1-572-685-11	SWITCH, ROTARY SLIDE (SPEAKERS)	***************************************	***************************************				
0,01	Carron, Herrini Gerbe (c. e.m.e.i.e)		MISCELLANEOUS				

*******	********************************						
			WIRE, FLAT TYPE (7 CORE)				
* 1-638-287-11			WIRE, FLAT TYPE (7 CORE)				
	*******		WIRE, FLAT TYPE (11 CORE)				
	(CONTINUE)		WIRE, FLAT TYPE (7 CORE)				
	< CONNECTOR >	64 1-535-530-11	PLUG, JUMPER (E)				
CN705 * 1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P	65 <u></u> ∆1-569-007-11	ADAPTER, CONVERSION 2P (E)				
TM701 1-537-341-11	TERMINAL BOARD (8P SP) (SPEAKER A, B)	CNP901 <u>↑</u> 1-551-188-XX	CORD, POWER (E)				
		CNP901 <u>↑</u> 1-551-478-00	CORD, POWER (US, Canadian)				
		CNP901 <u>↑</u> 1-559-912-11	CORD, POWER (Australian)				
*************	************************************	T001 A1 450 000 11	TOLLICEONIED DOWED (IIC C				
		1	TRANSFORMER, POWER (US, Canadian)				
		1 .	901 <u> </u>				
		A2-1 VZ± 1-211-212-11	SHITCH, PUMER VULTAGE SELECTION (E)				

Note:
The components identified by mark \(\frac{\hat{\Lambda}}{\text{\tinx}\text{\tinx}\text{\tik}\text{\texi}\text{\texi{\texi{\text{\text{\text{\text{\texi}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\tet

Note:

Note:
Les composants identifiés par une marque A sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

 Ref. No.
 Part No.
 Description
 Remarks

ACCESSORY & PACKING MATERIAL

* 4-943-620-01 CUSHION

HARDWARE LIST

- # 1 7-682-548-04 SCREW +BVTT 3X8 (S)
- # 2 7-682-548-09 SCREW +B 3X8
- # 3 7-682-561-04 SCREW +BVTT 4X8 (S)
- # 4 7-682-949-01 SCREW +PSW 3X10
- # 5 7-621-849-00 SCREW, TAPPING
- # 6 7-685-646-79 SCREW +BTP 3X8 TYPE2 N-S